**Course description**

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| **Generic information** |
| Head of Course |  Prof. Goran Vukelić |
| Course | Project assignment 1 |
| Study Programme | MSc Marine Engineering and Maritime Transport Technology |
| Type of Course | Elective |
| Year of Study | 1 |  |
| Estimated Student Workload and Methods of Instruction | ECTS coefficient of Student Workload | 5 |
| Number of Hours (L+E+S) | 0+0+60 |

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| **1. GENERAL COURSE DESCRIPTION** |
| *1.1. Course Objectives*  |
|  Developing independent research capabilities by browsing published references and application of research methods in fulfilling given project assignment that is linked to one or two principal course(s). |
| *1.2. Prerequisites for Course Registration*  |
| None. |
| *1.3. Expected Learning Outcomes*  |
| 1. Analysing the current mechanical condition of the engineering structure.
2. Assessing the possible solutions for improving the condition of the engineering structure.
3. Proposing new optimized solutions.
4. Understanding basic methods and techniques of non-destructive testing.
5. Applying research methods in fulfilling given project assignment.
6. Producing the final solution.
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| *1.4. Course Outline*  |
| Literature review. Defining of a project. Planning, organisation, managing and control of the project. Experimental and numerical analysis of selected engineering structure. Assessing the obtained solution. Writing of final report. Managing the results. |
| *1.5. Modes of* *Instruction*  | [ ] Lectures[x]  Seminars and workshops [ ]  Exercises [ ]  E-learning[ ]  Field work | [x]  Practical work [x]  Multimedia and Network [x]  Laboratory[ ]  Mentorship[ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| *1.6. Comments*  | - |
| *1.7. Student Obligations*  |
| Attending the lectures. |
| *1.8. Assessment1 of Learning Outcomes*  |
| Course attendance |  | Class participation | 1 | Seminar paper |     | Experiment | 0,5 |
| Written exam |  | Oral exam |     | Essay |     | Research | 2 |
| Project | 2 | Continuous Assessment |  | Presentation |     | Practical work | 0,5 |
| Portfolio |     |  |     |  |     |  |     |

1 **NOTE:** Name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course. Use empty fields for additional activities.

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| *1.9. Assessment of Learning Outcomes and Examples of Evaluation during Classes and on the Final Exam*  |
| According to the study rulebooks of University of Rijeka and Faculty of Maritime Studies: * through continuous assessment during the semester 70% of learning outcomes (1-5)
* through final exam 30% of learning outcomes (1-5).

Examples of evaluation in correlation to learning outcomes:1. Experimentally and numerically analyse the selected engineering structure.
2. Perform literature review for the selected problem.
3. Perform the numerical optimization of the selected engineering structure according to the set goal.
4. Define project plan.
5. Asses the optimized solution.

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| *1.10. Main Reading*  |  |  |
|  According to the principal course selected for the project assignment. |
| *1.11. Recommended Reading*  |  |  |
| According to the principal course selected for the project assignment. |
| *1.12. Number of Main Reading Examples*  |  |  |
| *Title*  | *Number of examples*  | *Number of students*  |
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| *1.13. Quality Assurance*  |
| According to ISO 9001 system set at Faculty of Maritime Studies, Rijeka. Once a year analysis of passing exam rate. Once a semester anonymous students online survey. |